

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 14507 - L2 Version 2
Chandra X-Ray Center

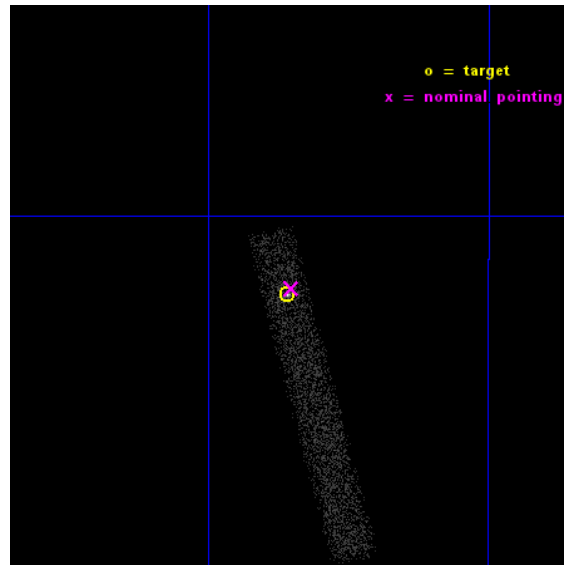
L2 Processing Date : Nov 29 2014

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1 Front

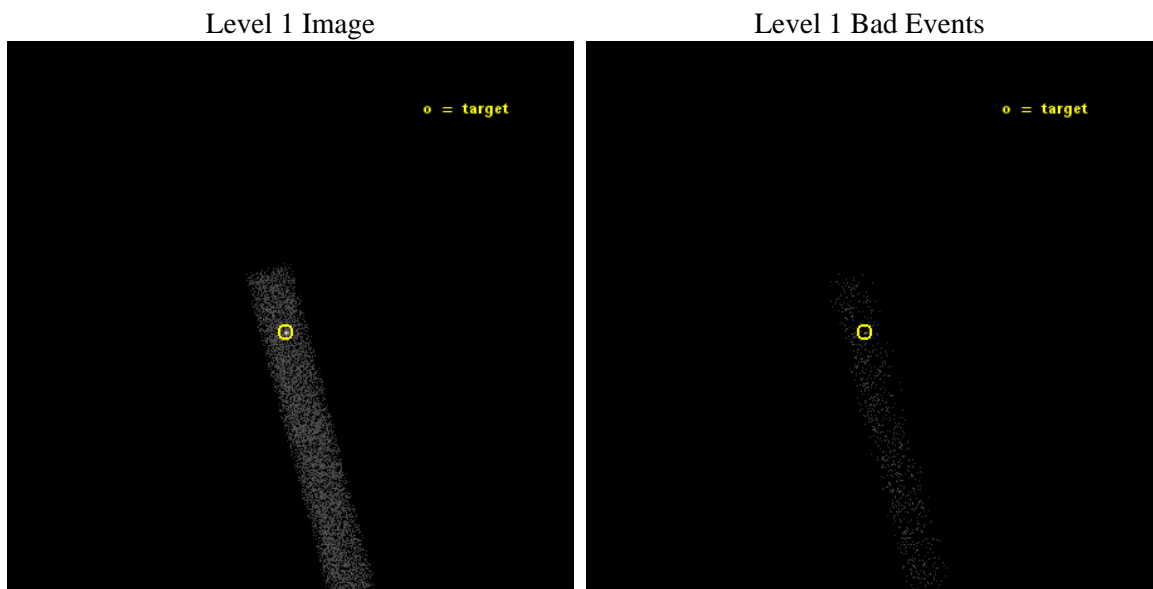
seq_num	702744	Sequence number
obs_id	14507	Observation id
title	ENERGY DEPENDENT X-RAY MICROLENSING AND THE STRUCTURE OF QUASARS	P
observer	Prof. Christopher Kochanek	Principal investigator
object	RXJ1131-1231	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	172.965	Observer's specified target RA [deg]
dec_targ	-12.5325	Observer's specified target Dec [deg]
ra_nom	172.96293685897	Nominal RA [deg]
dec_nom	-12.530305449938	Nominal Dec [deg]
roll_nom	74.790789332549	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10069.048115432	Sum of GTIs [s]
livetime	9132.0951527592	Livetime [s]
ontime7	10069.048115432	Sum of GTIs [s]
l2events	6976	Number of level 2 events



2 OBI

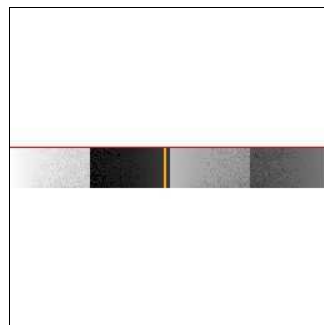
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	10069.048115432	Sum of GTIs [s]
caldsver	4.6.4	 	ontime7	10069.048115432	Sum of GTIs [s]
date	2014-11-29T14:25:33	Date and time of file creation	l1events	11978	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	11978
rejected events	4787
rejected %	39%

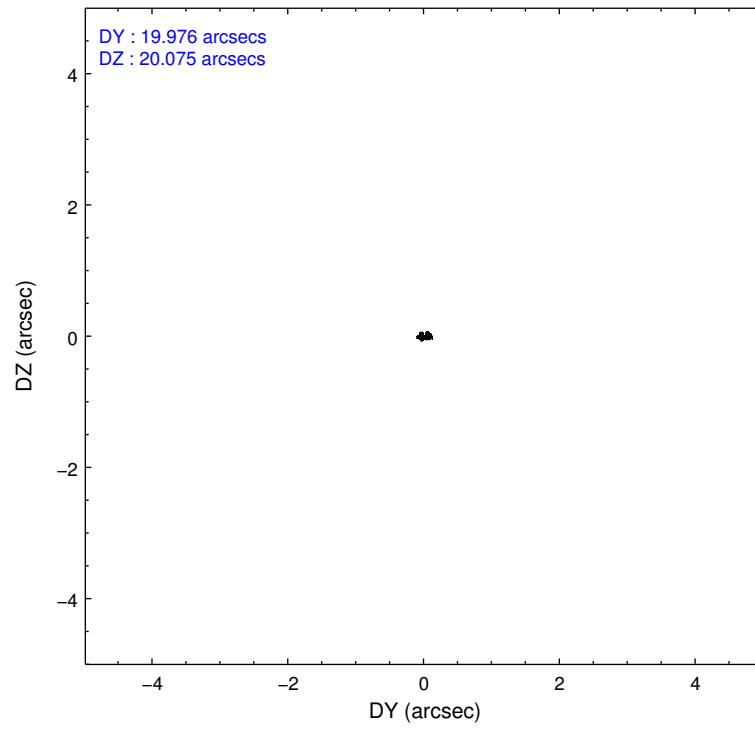
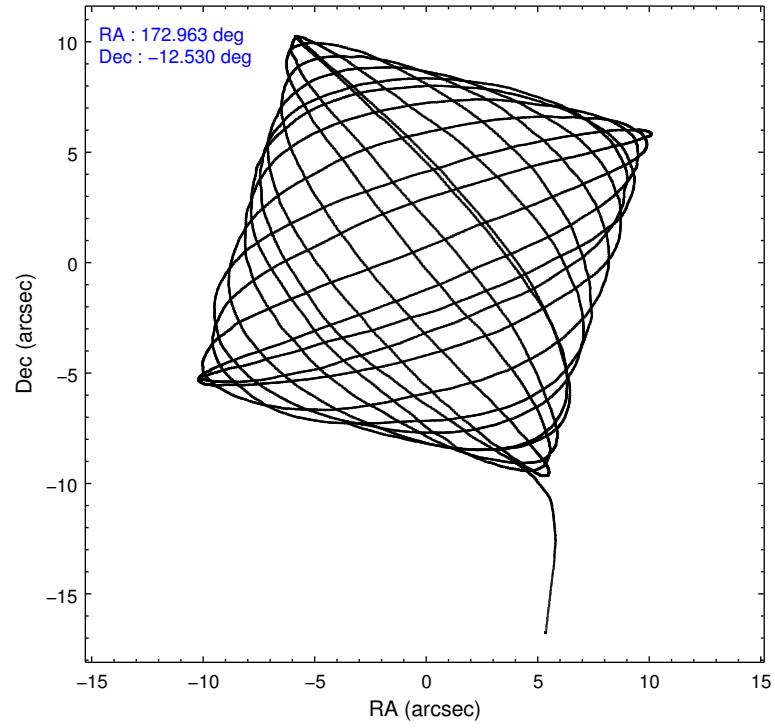
	ccd 7
grade 0 events	1146
	9%
grade 1 events	14
	0%
grade 2 events	1642
	13%
grade 3 events	851
	7%
grade 4 events	897
	7%
grade 5 events	1003
	8%
grade 6 events	2655
	22%
grade 7 events	3770
	31%

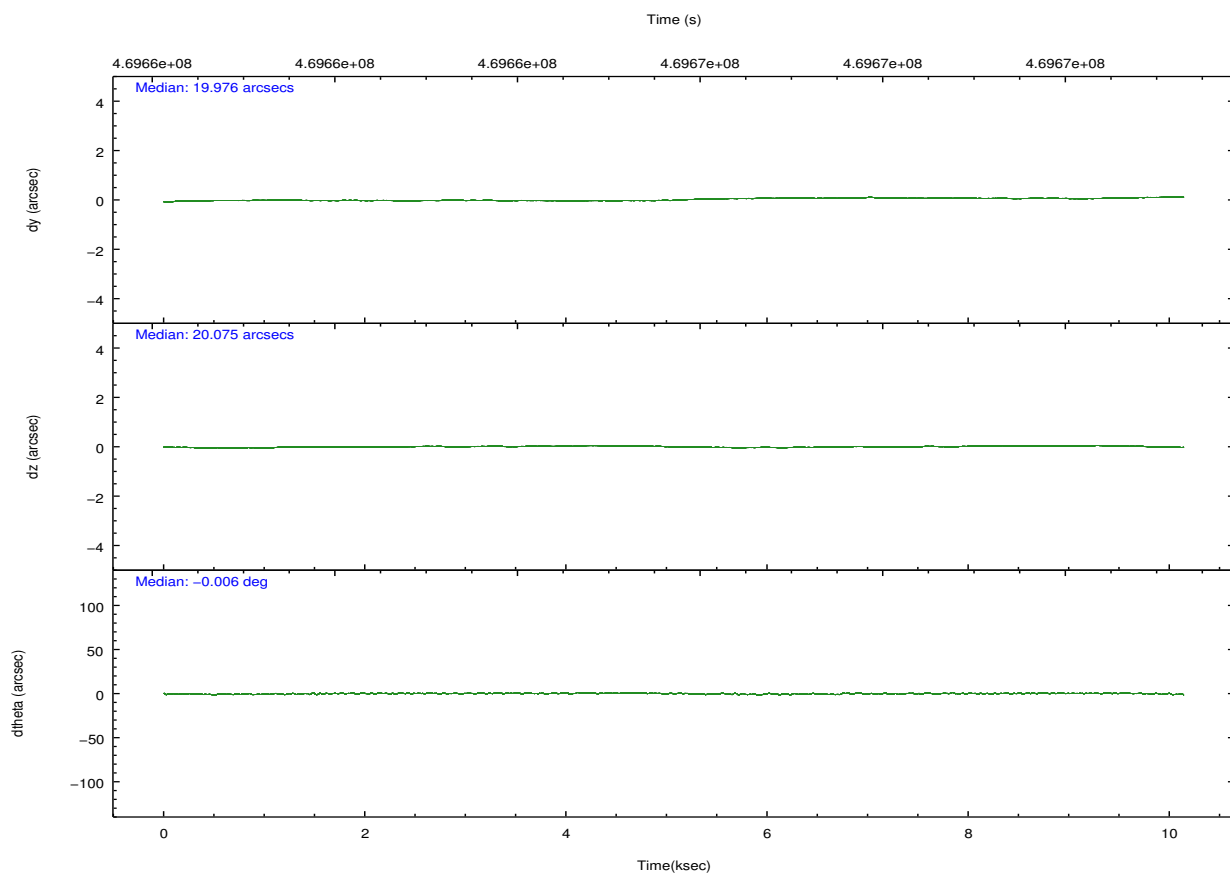
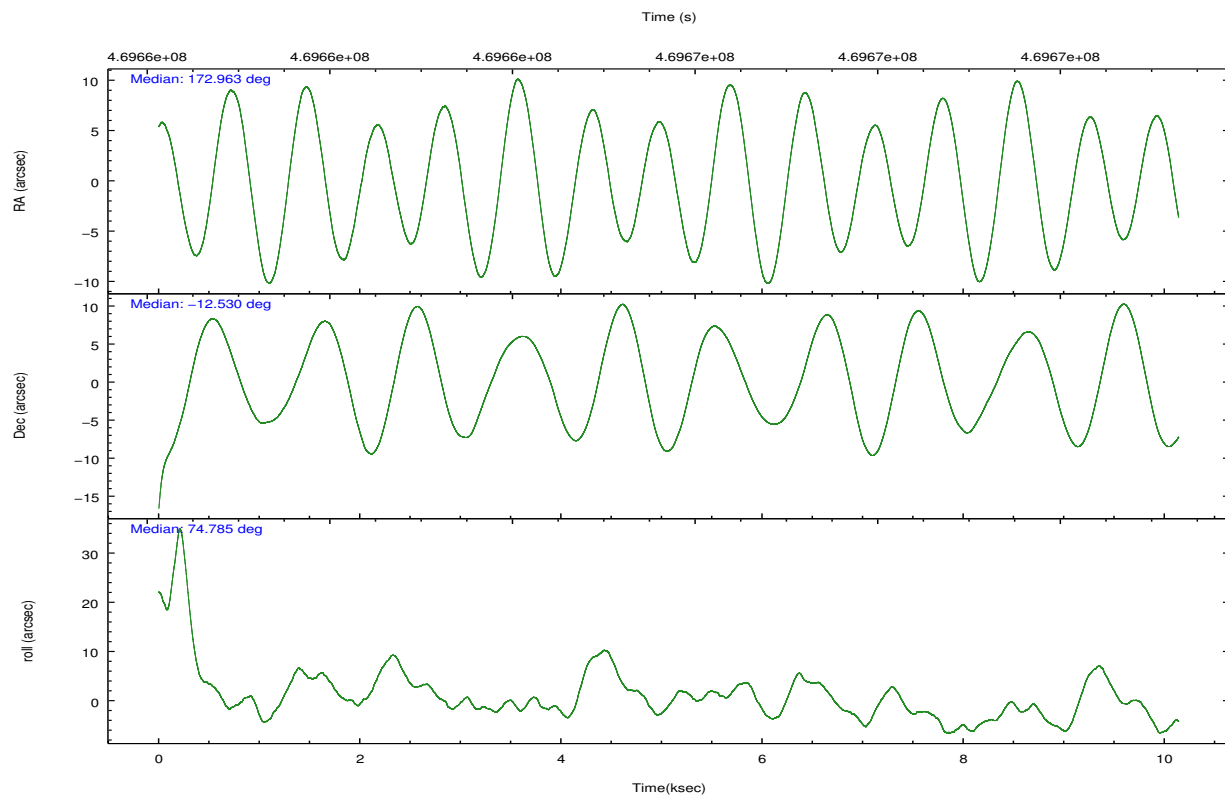
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	172.970433	172.9629368589702
[deg] Pointing Dec	-12.556602	-12.53030544993818
[deg] Pointing Roll	74.635786	74.79078933254948
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	469660783.184000	469659840.6032
Observation start date	2012-11-18T21:18:36	2012-11-18T21:04:00
[s] Observation end time (MET)	469670783.184000	469671549.69133
Observation end date	2012-11-19T00:05:16	2012-11-19T00:19:09
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.4

2.3 Aspect



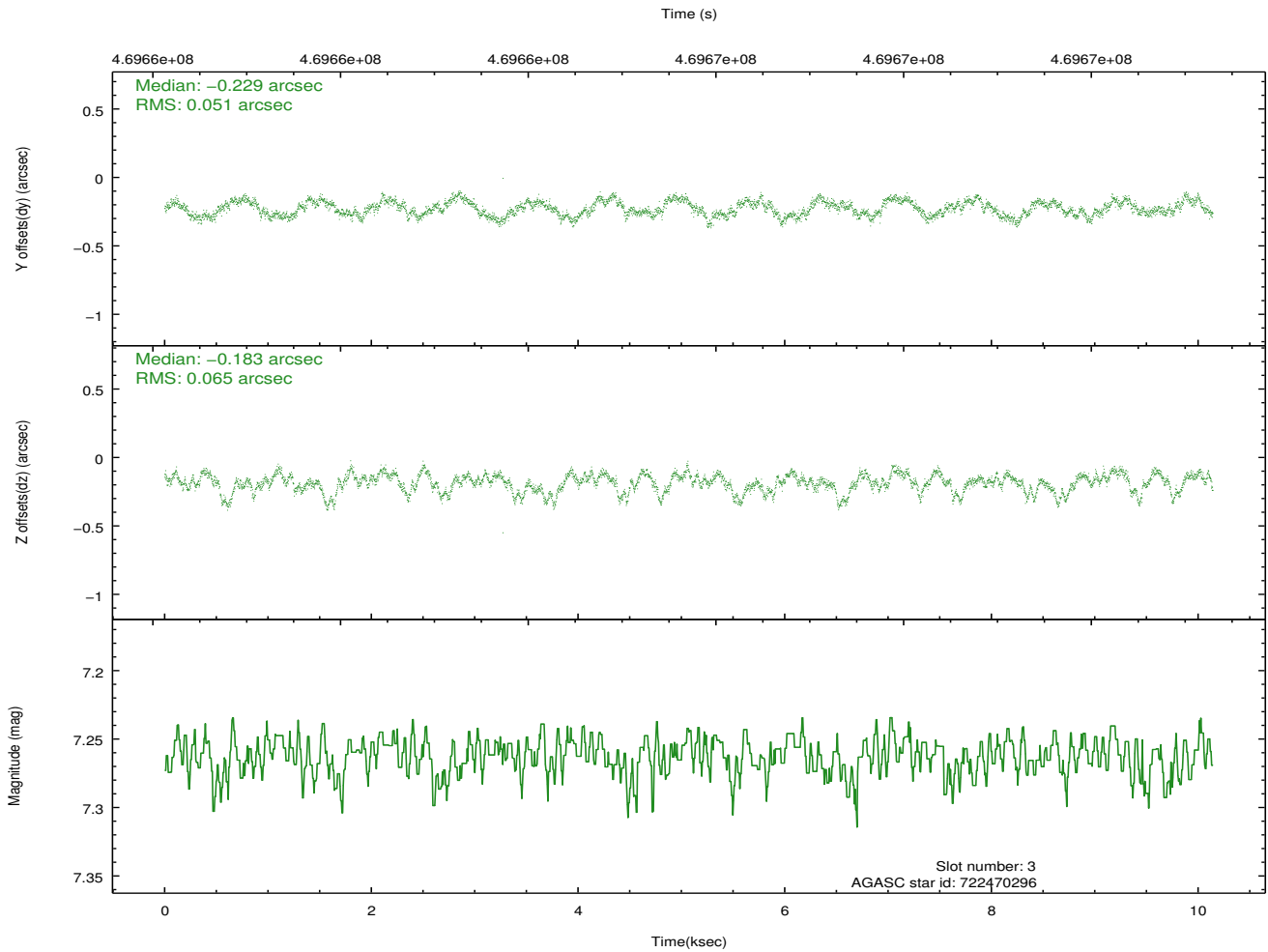
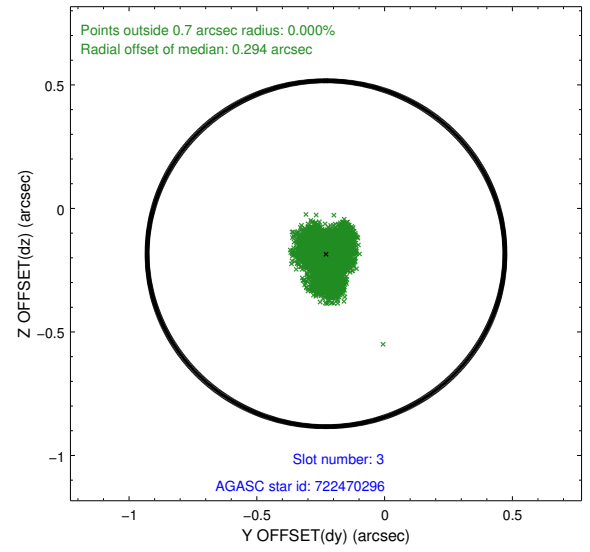
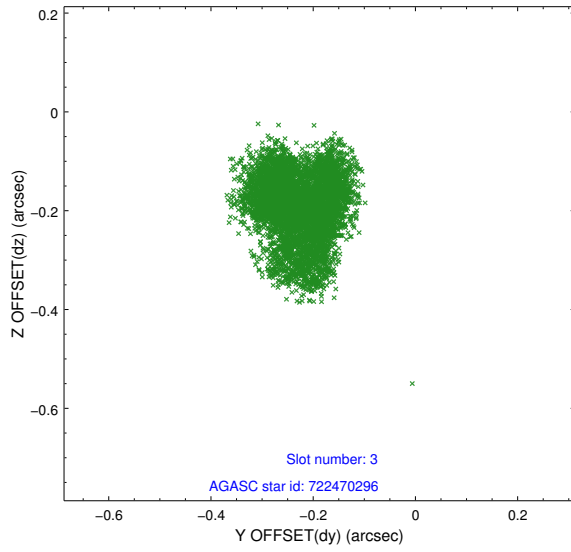


Slot Statistics

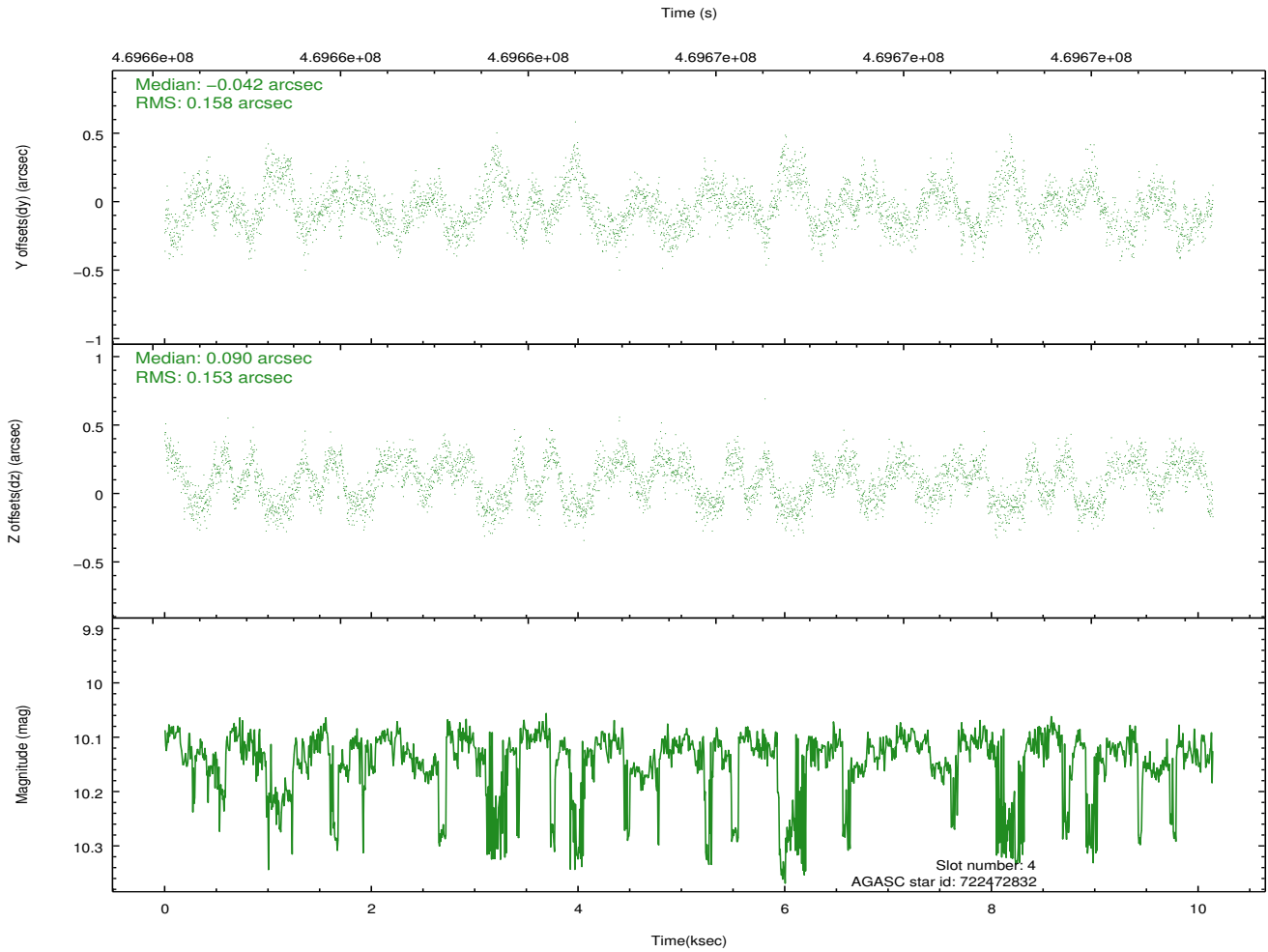
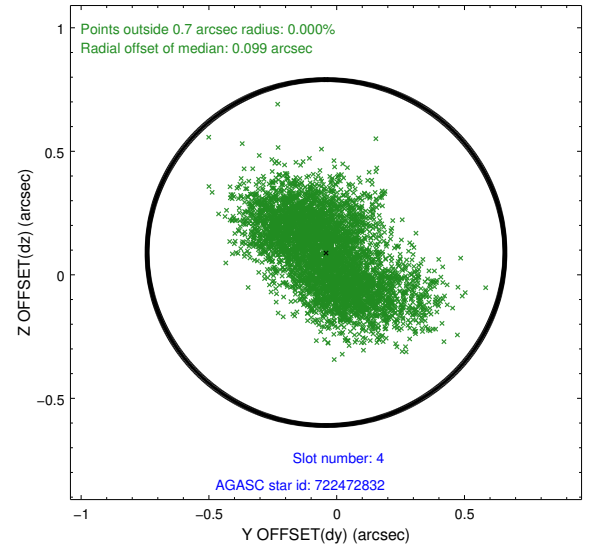
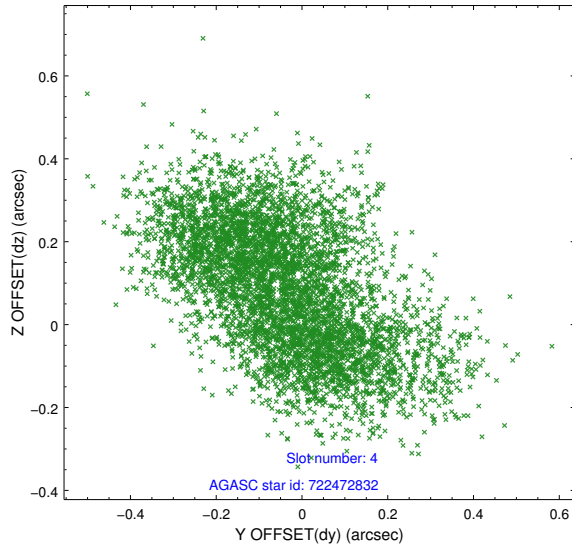
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.00	2474	0.044	-0.018	0.007	0.013	0.000000	0.000000	922.99	-1737.18
1	FID		ACIS-S-5	7.05	2474	-0.138	0.019	0.006	0.010	0.000000	0.000000	-1825.91	159.86
2	FID		ACIS-S-6	7.15	2474	0.073	0.010	0.007	0.011	0.000000	0.000000	387.99	804.41
3	GUIDE	used	722470296	7.26	4946	-0.229	-0.183	0.089	0.142	172.921689	-12.381367	563.07	332.98
4	GUIDE	used	722472832	10.13	4782	-0.042	0.090	0.234	0.376	173.078970	-12.015349	1980.38	148.31
5	GUIDE	used	722473176	9.44	4910	-0.070	-0.192	0.191	0.290	172.599746	-12.066793	1354.02	1725.90
6	GUIDE	used	722871728	9.66	4912	0.120	0.286	0.194	0.314	173.202235	-12.568355	175.53	-795.47
7	GUIDE	used	722873464	7.30	4947	0.236	0.009	0.111	0.195	172.661543	-13.050266	-2001.25	573.00

2.4 Star Slots

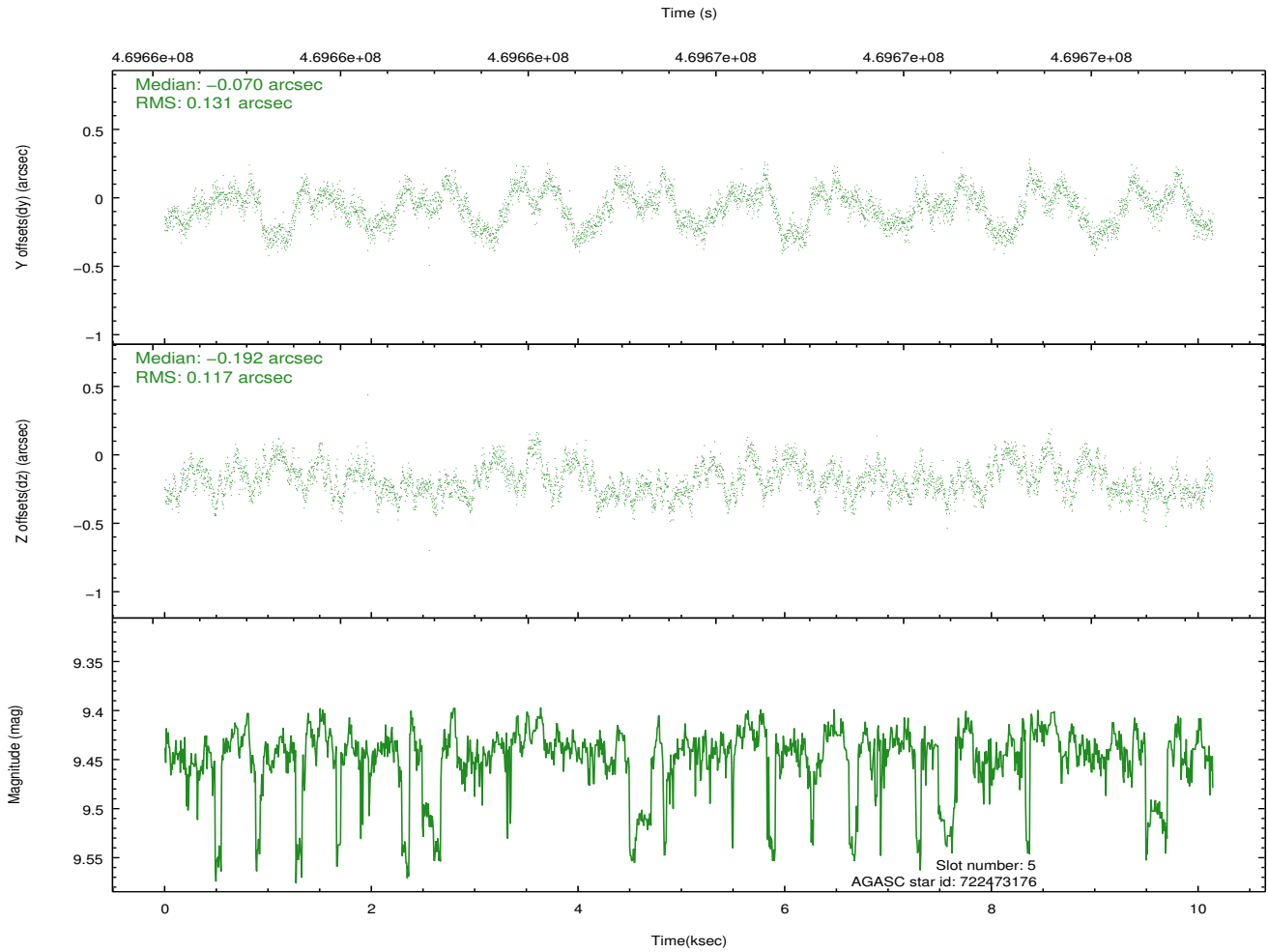
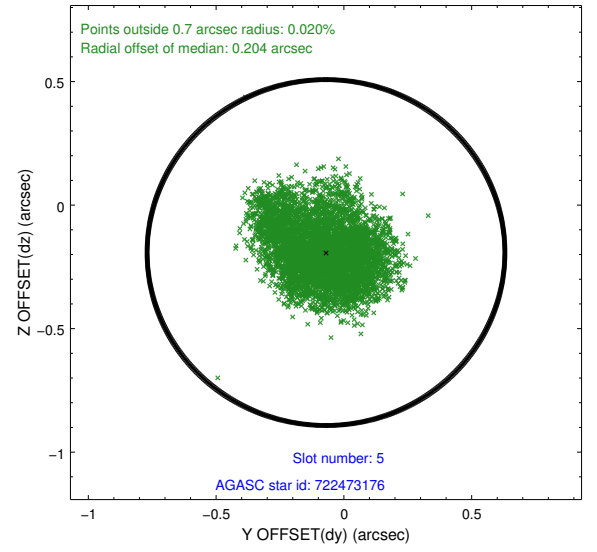
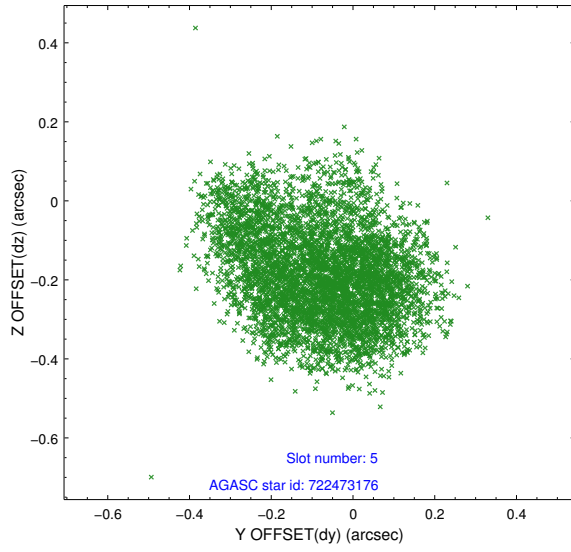
2.4.1 Slot 3



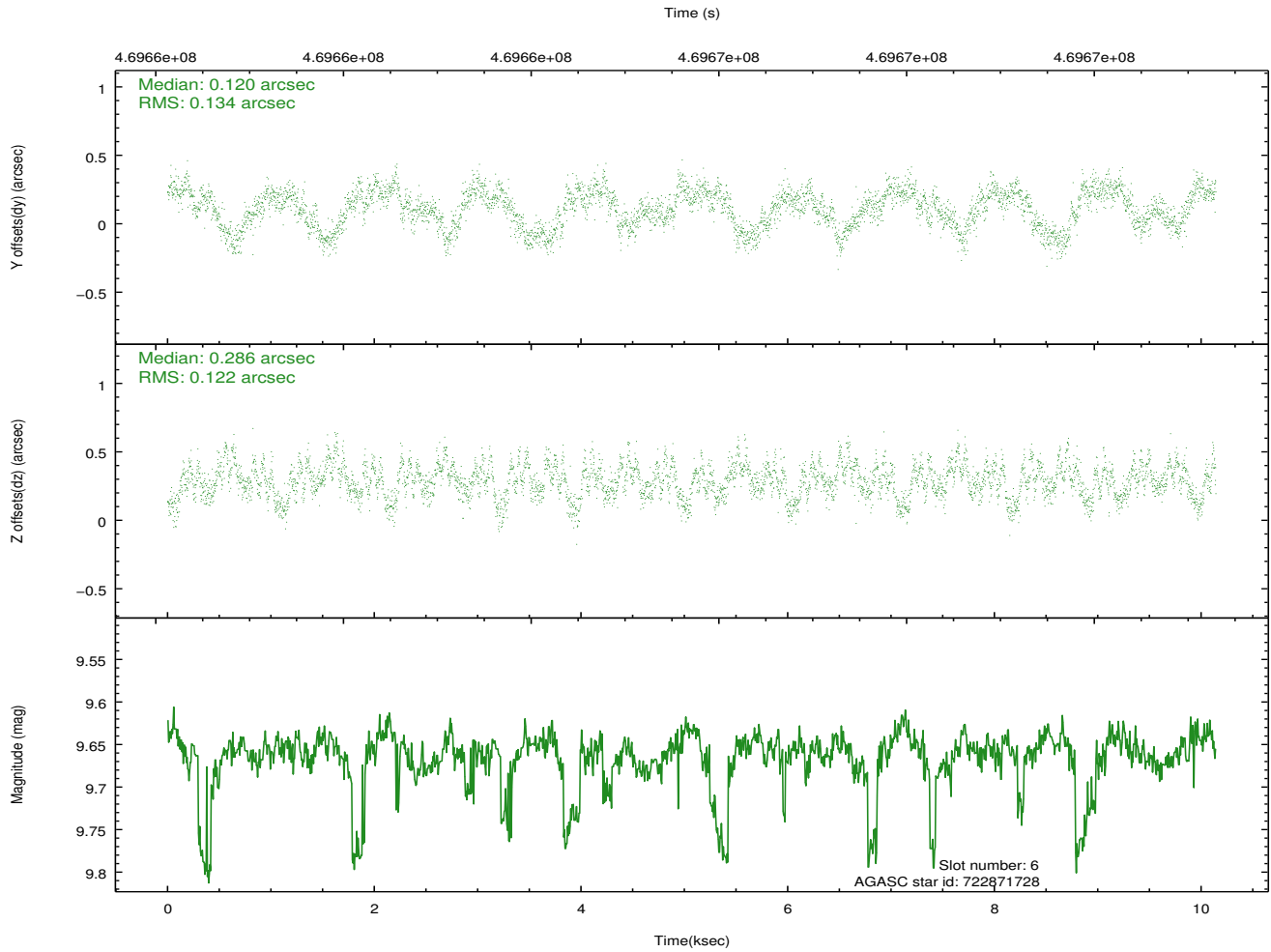
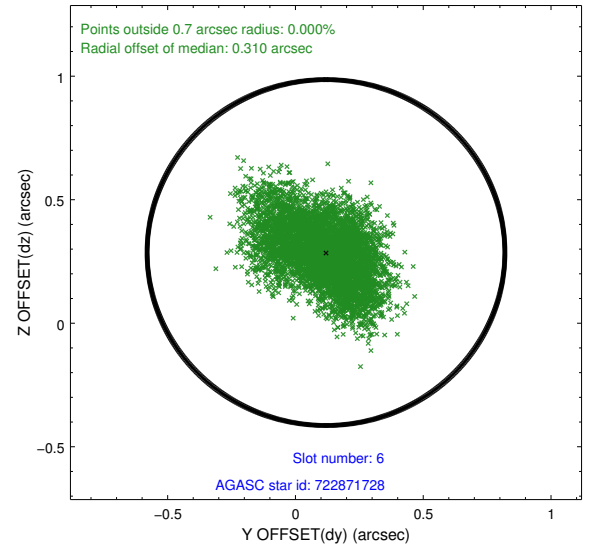
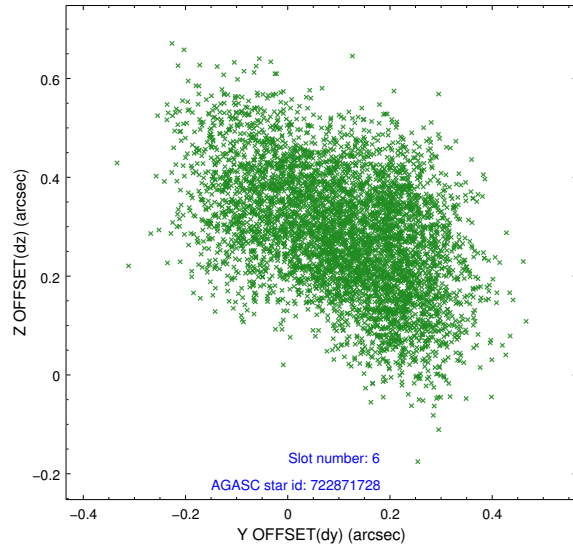
2.4.2 Slot 4



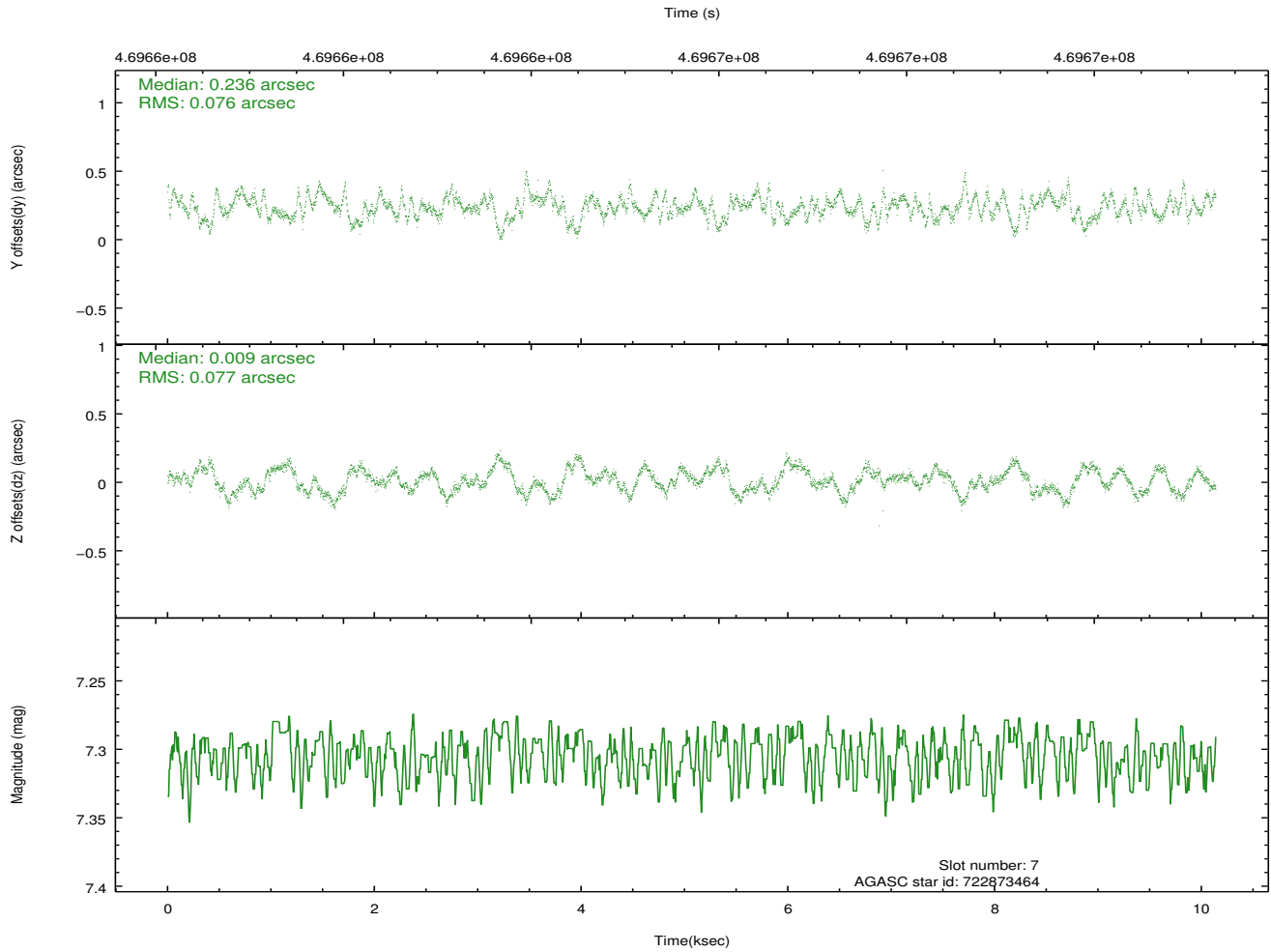
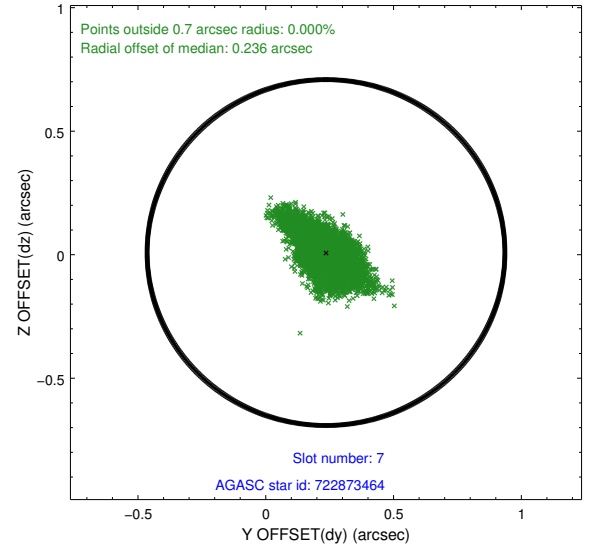
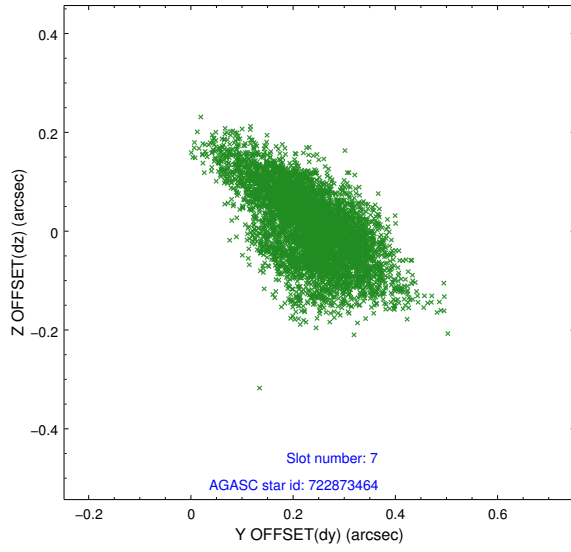
2.4.3 Slot 5



2.4.4 Slot 6

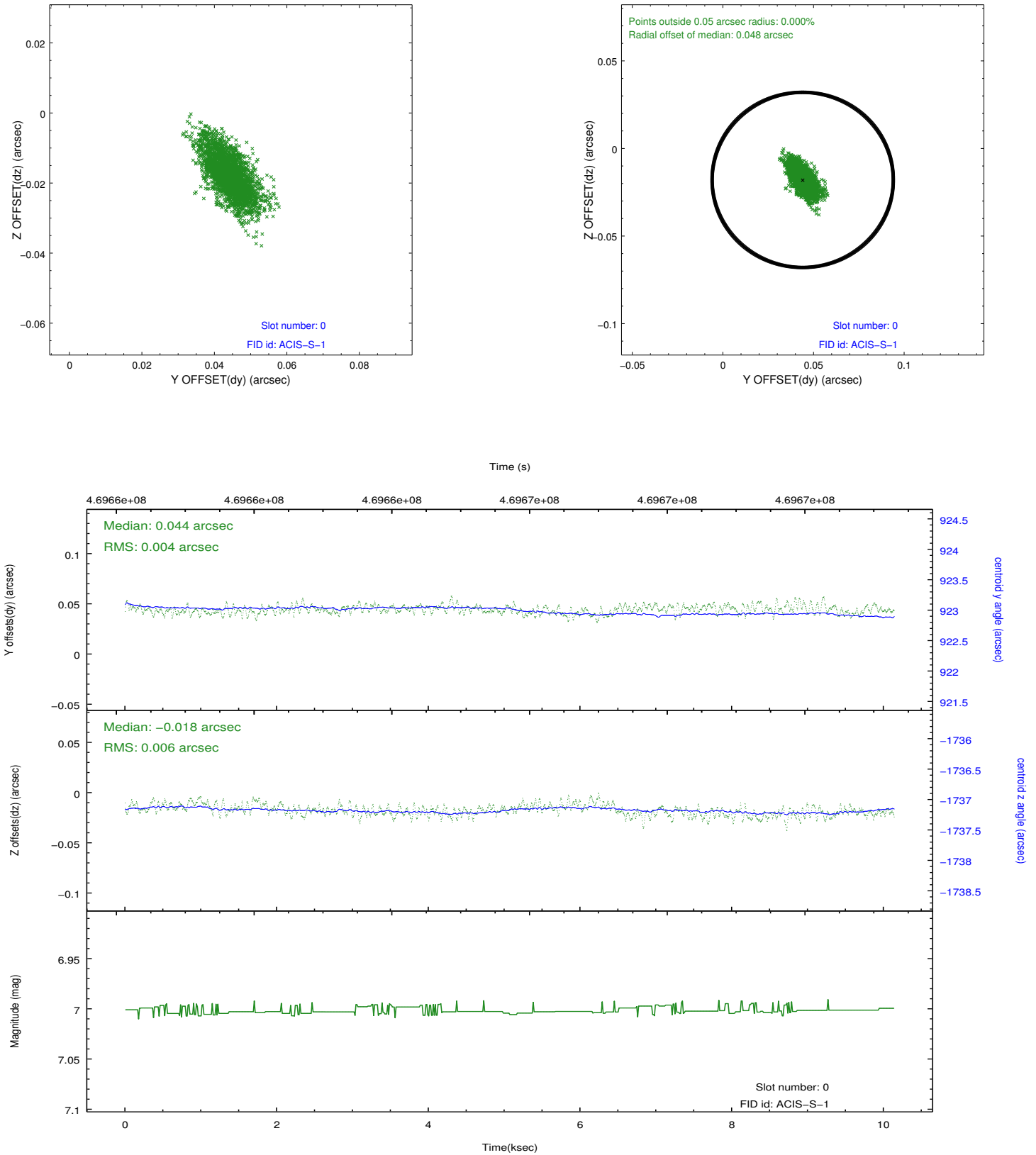


2.4.5 Slot 7

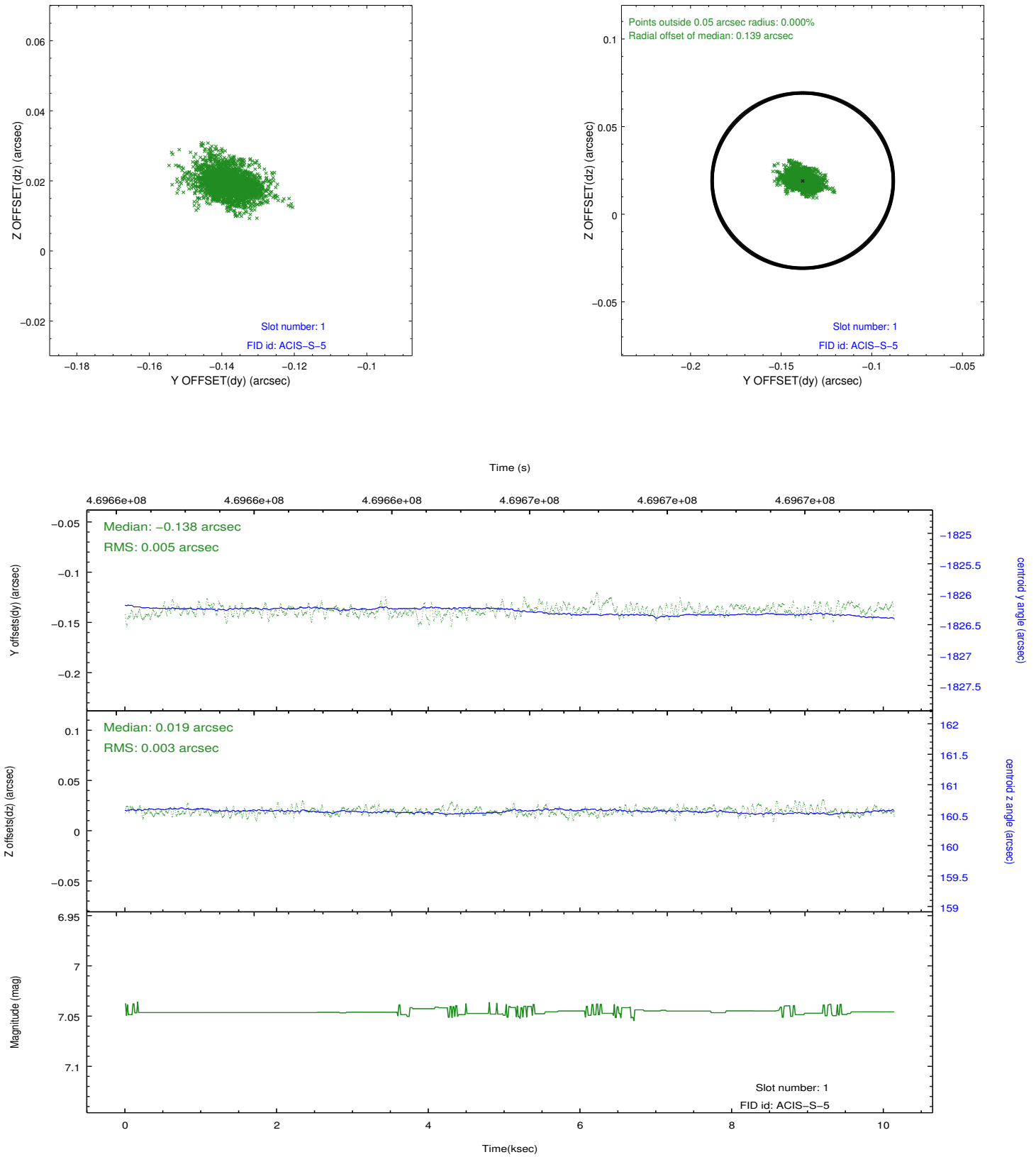


2.5 FID Slots

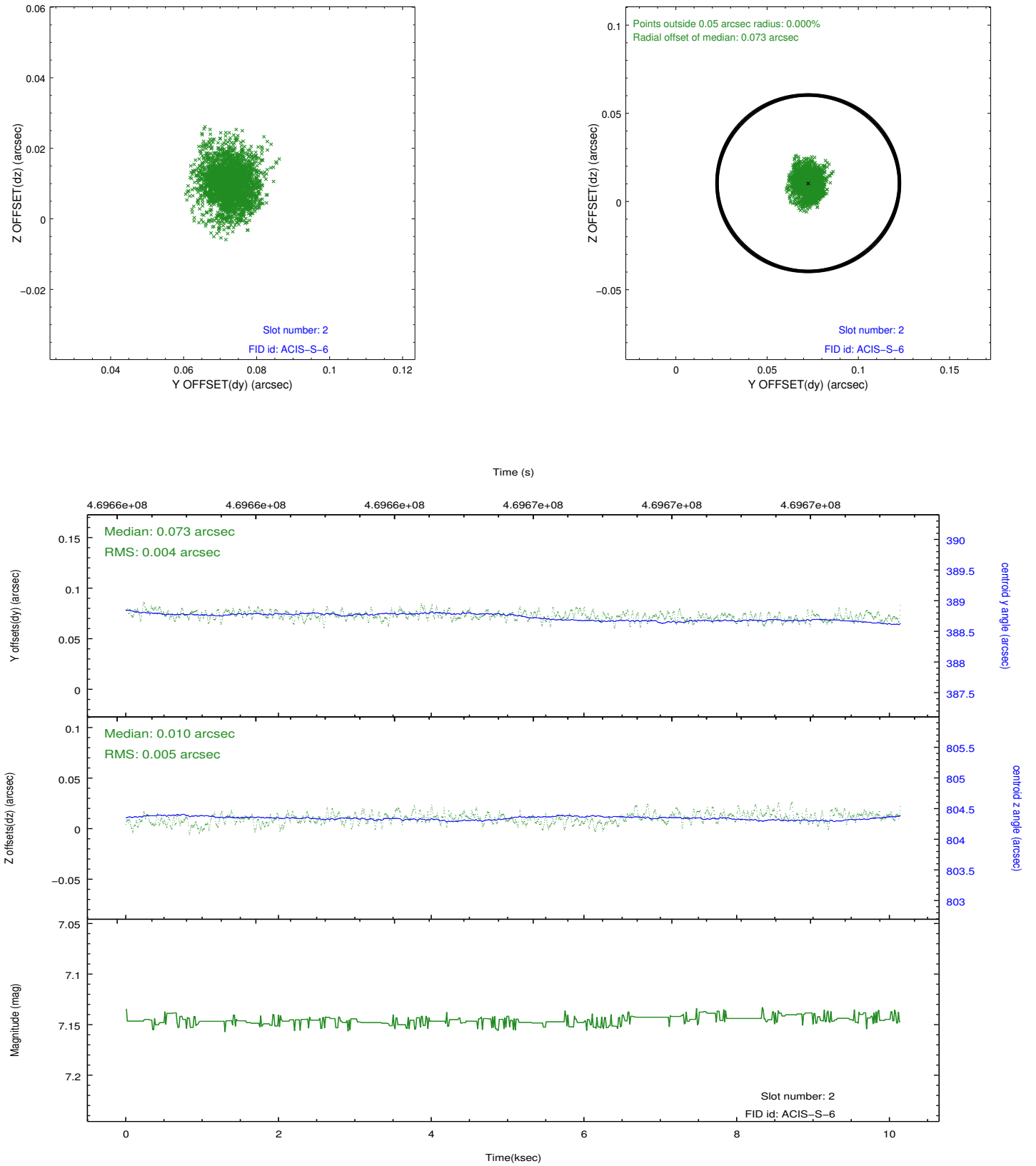
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.069048115432

A.2 Comments

Joint Proposal: HST

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These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.